WHAT IS CLAIMED IS:

1. A fluoroelastomer comprising copolymerized units of

(A) a first fluoromonomer selected from the group consisting of vinylidene fluoride and tetrafluoroethylene;

(B) at least one second fluoromonomer, different from said first fluoromonomer;

(C) 0.05 to 4 weight percent, based on total weight of said fluoroelastomer, of a cure site monomer having the general formula CH_2=CH-$(CF_2)_n$I, where n is an integer between 2 and 8; and

(D) 0.01 to 1 weight percent, based on total weight of said fluoroelastomer, of iodine bound at terminal positions of fluoroelastomer polymer chains.

2. A fluoroelastomer of claim 1 wherein said cure site monomer is 4-iodo-3,3,4,4-tetrafluorobutene-1.

3. A fluoroelastomer of claim 1 wherein said first fluoromonomer is vinylidene fluoride.

4. A fluoroelastomer of claim 1 wherein said first fluoromonomer is vinylidene fluoride and wherein said second fluoromonomer is selected from the group consisting of fluorine-containing olefins, fluorine-containing ethers, and mixtures thereof.

5. A fluoroelastomer of claim 4 wherein said second fluoromonomer is selected from the group consisting of hexafluoropropylene, tetrafluoroethylene, 1,2,3,3,3-pentafluoropropene, chlorotrifluoroethylene, vinyl fluoride and perfluoro(methyl vinyl ether).

6. A fluoroelastomer of claim 1 wherein said first fluoromonomer is tetrafluoroethylene.

7. A fluoroelastomer of claim 1 wherein said first fluoromonomer is tetrafluoroethylene and wherein said second fluoromonomer is selected from the group consisting of fluorine-containing olefins, fluorine-containing ethers, and mixtures thereof.

8. A fluoroelastomer of claim 7 wherein said second fluoromonomer is selected from the group consisting of hexafluoropropylene, vinylidene fluoride, 1,2,3,3,3-pentafluoropropene, chlorotrifluoroethylene, vinyl fluoride and perfluoro(methyl vinyl ether).

9. A fluoroelastomer of claim 1 comprising copolymerized units of 30 to 60 wt.% vinylidene fluoride, 15 to 30 wt.% tetrafluoroethylene, 25 to 45 wt.% hexafluoropropylene, 0.1 to 0.4 wt.% 4-iodo-3,3,4,4-terafluorobutene-1 and 0.05 to 0.40 wt.% I at chain ends.

10. A fluoroelastomer of claim 1 comprising copolymerized units of 20 to 65 wt.% vinylidene fluoride, 5 to 30 wt.% tetrafluoroethylene, 30 to 45 wt.% perfluoro(methyl vinyl ether), 0.1 to 0.4 wt.% 4-iodo-3,3,4,4-tetrafluorobutene-1 and 0.05 to 0.40 wt.% I at chain ends.

11. A fluoroelastomer of claim 1 comprising copolymerized units of 44 to 60 wt.% tetrafluoroethylene, 39 to 55 wt.% perfluoro(methyl vinyl ether), 0.1 to 0.4 wt.% 4-iodo-3,3,4,4-tetrafluorobutene-1 and 0.05 to 0.40 wt.% I at chain ends.

12. A curable fluoroelastomer composition comprising:

(A) a fluoroelastomer comprising (i) a first fluoromonomer selected from the group consisting of vinylidene fluoride and tetrafluoroethylene; (ii) at least one second fluoromonomer, different from said first fluoromonomer; (iii) 0.05 to 4 weight percent, based on total weight of said fluoroelastomer, of a cure site monomer having the general formula CH_2=CH-$(CF_2)_n$I, where n is an integer between 2 and 8; and (iv) 0.01 to 1 weight percent, based on total weight of said fluoroelastomer, of iodine bound at terminal positions of fluoroelastomer polymer chains;

(B) an organic peroxide; and

(C) a coagent.

13. A curable fluoroelastomer composition of claim 12 further comprising (D) an acid acceptor.

14. A curable fluoroelastomer composition of claim 13 wherein said acid acceptor is selected from the group consisting of a divalent metal

oxide, a divalent metal hydroxide, an organic amine having a pKa greater than 10, and mixtures thereof.

15. A curable fluoroelastomer composition of claim 12 wherein said fluoroelastomer cure site monomer is 4-iodo-3,3,4,4-tetrafluorobutene-1.

16. A curable fluoroelastomer composition of claim 12 wherein said first fluoromonomer in said fluoroelastomer is vinylidene fluoride.

17. A curable fluoroelastomer composition of claim 12 wherein said first fluoromonomer in said fluoroelastomer is vinylidene fluoride and wherein said second fluoromonomer is selected from the group consisting of fluorine-containing olefins, fluorine-containing ethers, and mixtures thereof.

18. A curable fluoroelastomer composition of claim 17 wherein said second fluoromonomer is selected from the group consisting of hexafluoropropylene, tetrafluoroethylene, 1,2,3,3,3-pentafluoropropene, chlorotrifluoroethylene, vinyl fluoride and perfluoro(methyl vinyl ether).

19. A curable fluoroelastomer composition of claim 12 wherein said first fluoromonomer in said fluoroelastomer is tetrafluoroethylene.

20. A curable fluoroelastomer composition of claim 12 wherein said first fluoromonomer in said fluoroelastomer is tetrafluoroethylene and wherein said second fluoromonomer is selected from the group consisting of fluorine-containing olefins, fluorine-containing ethers, and mixtures thereof.

21. A curable fluoroelastomer composition of claim 20 wherein said second fluoromonomer is selected from the group consisting of hexafluoropropylene, vinylidene fluoride, 1,2,3,3,3-pentafluoropropene, chlorotrifluoroethylene, vinyl fluoride and perfluoro(methyl vinyl ether).

22. A curable fluoroelastomer composition of claim 12 wherein said fluoroelastomer comprises copolymerized units of 30 to 60 wt.% vinylidene fluoride, 15 to 30 wt.% tetrafluoroethylene, 25 to 45 wt.%

hexafluoropropylene, 0.1 to 0.4 wt.% 4-iodo-3,3,4,4-terafluorobutene-1 and 0.05 to 0.40 wt.% I at chain ends.

23. A curable fluoroelastomer composition of claim 12 wherein said fluoroelastomer comprises copolymerized units of 20 to 65 wt.% vinylidene fluoride, 5 to 30 wt.% tetrafluoroethylene, 30 to 45 wt.% perfluoro(methyl vinyl ether), 0.1 to 0.4 wt.% 4-iodo-3,3,4,4-tetrafluorobutene-1 and 0.05 to 0.40 wt.% I at chain ends.

24. A curable fluoroelastomer composition of claim 12 wherein said fluoroelastomer comprises copolymerized units of 44 to 60 wt.% tetrafluoroethylene, 39 to 55 wt.% perfluoro(methyl vinyl ether), 0.1 to 0.4 wt.% 4-iodo-3,3,4,4-tetrafluorobutene-1 and 0.05 to 0.40 wt.% I at chain ends.